## Product Information

<table>
<thead>
<tr>
<th>Product Name</th>
<th>UniCel DxC SYNCHRON Systems HDL Cholesterol reagent (HDL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>A15625</td>
</tr>
<tr>
<td>Series Name</td>
<td>UniCel® DxC Synchron® Systems</td>
</tr>
</tbody>
</table>

## Components

<table>
<thead>
<tr>
<th>Description</th>
<th>HDL Cholesterol Reagent (Compartment A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDL Cholesterol Reagent (Compartment B)</td>
</tr>
</tbody>
</table>

## Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.
Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name
HDL Cholesterol Reagent (Compartment A)
Part Number
Component of P/N A15625
Series Name
UniCel® DxC Synchron® Systems

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use
For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer
Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

EC REP Address
Beckman Coulter Eurocenter S.A.
22, rue Juste-Oliver, Case Postale 1044,
CH-1260 Nyon 1, Switzerland.
Telephone +41 (0)22 365 36 11
Monday through Friday, 9:00 am to 7:00pm)

e-mail address
SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H)
Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)
703-527-3887

Distributor and Emergency Phone No.
Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description
Mixture
Pale yellow; Clear; Liquid; Odorless

Classification according to EC 1272/2008 (CLP/GHS)
Respiratory Sensitization Category 1
Skin Sensitization Category 1

Classification according to EC Directives 1999/45/EC and 67/548/EEC
Xi;R43

Classification according to US-Osha (HCS 29 CFR 1910.1200) and UN GHS
Skin Sensitization Category 1
Respiratory Sensitization Category 1
Section 2 Hazards Identification (Continued)

2.2 Label Elements
According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients
Peroxidase
reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

Pictogram

Signal Word
DANGER

Hazard Statements
H317  May cause an allergic skin reaction.
H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements
P261  Avoid breathing vapours.
P272  Contaminated work clothing should not be allowed out of the workplace.
P280  Wear protective gloves, protective clothing and eye/face protection.
P284  In case of inadequate ventilation, wear respiratory protection.
P302+P352  IF ON SKIN: Wash with plenty of soap and water.
P304+P340  IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P333+P313  If skin irritation or rash occurs: Get medical advice/attention.
P342+P311  If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362+P364  Take off contaminated clothing and wash it before use.
P501  Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredients:</th>
<th>Hazard Classification of Pure Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>% by wt.</td>
</tr>
<tr>
<td>UniCel DxC SYNCHRON Systems HDL Cholesterol reagent (HDL)</td>
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</tr>
<tr>
<td>HDL Cholesterol Reagent (Compartment A)</td>
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</tr>
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Global SDS – English
Section 3 Composition and Information on Ingredients (Continued)

<table>
<thead>
<tr>
<th>Peroxidase</th>
<th>0.1 - 1</th>
<th>Xn,R42/43</th>
<th>Resp. Sens. 1</th>
<th>Resp. Sens. 1</th>
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</thead>
<tbody>
<tr>
<td>CAS # 9003-99-0</td>
<td>5.2</td>
<td>Skin Sens. 1</td>
<td>Skin Sens. 1</td>
<td></td>
</tr>
<tr>
<td>EINECS # 232-668-6</td>
<td>5.1</td>
<td>H317; H334</td>
<td>H317; H334</td>
<td></td>
</tr>
<tr>
<td>Index # Not available</td>
<td>4.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6][3:1]</td>
<td>4.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS # 55965-84-9</td>
<td>4.1</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EINECS # Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index # Not available</td>
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<td></td>
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</table>

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6][3:1]

CAS # 55965-84-9
EINECS # Not available
Index # Not available

< 0.05

< T;R23/24/25-34-43 N,R50/53

Acute Tox. Dermal 3
Acute Tox. Inhal. 3
Acute Tox. Oral 3
Aquatic Acute 1
Aquatic Longterm 1
Skin Corr. 1B
Skin Sens. 1
H301; H311; H314;
H317; H331; H400;
H410

Acute Tox. Dermal 3
Acute Tox. Inhal. 3
Acute Tox. Oral 3
Aquatic Acute 1
Aquatic Longterm 1
Skin Corr. 1B
Skin Sens. 1
H301; H311; H314;
H317; H331; H400;
H410

9

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6][3:1] is the active ingredient of ProClin 300.

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation
If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact
If product enters eyes, wash gently with copious amounts of water for at least 15 minutes. If irritation occurs, seek medical attention.

Skin Contact
In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion
If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May produce an allergic reaction in some people.
See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

4.1 Flammable Properties

Nonflammable aqueous solution.

5.1 Extinguishing Media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.
For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture
Section 5 Fire Fighting Measures (Continued)

Special Fire and Explosion Hazards
No special hazards determined.

Hazardous Combustion Products
No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment
Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information
No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
Observe general safety guidelines for protection; avoid eye and skin contact.
Wear protective gloves, protective clothing and tightly sealed eye/face protection.

6.2 Environmental Precautions
Contain spill to prevent migration.
Do not allow the undiluted product to enter sewers/surface or ground water.
Dispose of contents/container in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures
Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

6.4 Reference to other sections
Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling
Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities
Store at 2 to 8°C, as directed on the product label.
To maintain product quality, store according to the instructions in the product labeling.
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses
No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits
US OSHA
None established
Section 8 Exposure Controls and Personal Protection (Continued)

ACGIH  None established  
DFG MAK  None established  
Ireland  None established  
IOELVs  None established  
NIOSH  None established  
Japan  None established  

8.2 Exposure controls

Engineering Controls  
No special engineering controls are required. Use with good general ventilation.

Eye Protection  
Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection  
Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Respiratory Protection  
Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
<th>Specific Gravity (Water=1.0)</th>
<th>≈1 @20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Pale yellow</td>
<td>Solubility</td>
<td></td>
</tr>
<tr>
<td>Transparency</td>
<td>Clear</td>
<td>Water</td>
<td>Miscible</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td>Organic</td>
<td>Not determined</td>
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<tr>
<td>pH</td>
<td>6.0</td>
<td>Partition coefficient: n-octanol/water</td>
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</tr>
<tr>
<td>Freezing Point</td>
<td>Not determined</td>
<td>Auto-ignition Temp.</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
<td>Percent Volatiles</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not applicable</td>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
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</table>
Section 9 Physical and Chemical Properties (Continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2 Other Information

No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical Stability

The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to Avoid

To maintain product performance keep away from strong acids, strong bases, strong oxidizers.

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Not applicable

Primary Routes of Exposure

Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory/skin sensitization

May cause sensitization by inhalation and skin contact.

Carcinogenicity

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity

No data available.

Reproductive Toxicity

No data available.

Specific target organ toxicity – single exposure

No data available.
Section 11 Toxicological Information (Continued)

Specific target organ toxicity – repeated exposure
No data available.

Aspiration hazard No data available.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity
Fresh Water Species No information available.
Microtox No information available.
Water Flea No information available.
Fresh Water Algae No information available.

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

12.5 Results of PBT and vPvB assessment
Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

Section 13 Disposal Considerations

13.1 Waste treatment methods
Product Waste Disposal Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information
Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.
Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal and State Regulations

SARA 313  No ingredients listed.
CERCLA RG’s, 40 CFR 302.4  No ingredients listed.
California Proposition 65  No ingredients listed.
Massachusetts MSL  No ingredients listed.
New Jersey Dept. of Health RTK List  No ingredients listed.
Pennsylvania RTK  No ingredients listed.

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany)  WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Risk and Safety Phrases

R43  May cause sensitization by skin contact.
S24  Avoid contact with skin.
S36/37/39  Wear suitable protective clothing, gloves and eye/face protection.
S28  After contact with skin, wash immediately with plenty of water.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN  Not applicable

Ingredients on Ingredient Disclosure List

None

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment  A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.
Section 16 Other Information

<table>
<thead>
<tr>
<th>Beckman Coulter Safety Rating</th>
<th>Flammability: 0</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Health: 3</td>
<td>0= None</td>
</tr>
<tr>
<td></td>
<td>Reactivity with Water: 0</td>
<td>1= Slight</td>
</tr>
<tr>
<td></td>
<td>Contact: 3</td>
<td>2= Caution</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Revision Changes</th>
<th>Update of EC Rep Address</th>
</tr>
</thead>
</table>

Hazard Class, hazard statements and risk phrase description from section 3

N - Dangerous for the environment
T - Toxic
Xn - Harmful
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R42/43 May cause sensitization by inhalation and skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3
Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
Resp. Sens. 1 - Respiratory Sensitization Category 1
Skin Corr. 1B - Skin Corrosion Category 1B
Skin Sens. 1 - Skin Sensitization Category 1
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
Section 16 Other Information (Continued)

ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances

For further information, please contact your local Beckman Coulter, Inc. representative.

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Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier
- **Product Name**: HDL Cholesterol Reagent (Compartment B)
- **Part Number**: Component of P/N A15625
- **Series Name**: UniCel® DxC Synchron® Systems

1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Product Use**: For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of the supplier of the safety data sheet
- **Manufacturer**: Beckman Coulter, Inc.
  250 S. Kraemer Blvd
  Brea, CA 92821, U.S.A.
  Tel: 800-854-3633
- **EC REP Address**: Beckman Coulter Eurocenter S.A.
  22, rue Juste-Oliver, Case Postale 1044,
  CH-1260 Nyon 1, Switzerland.
  Telephone +41 (0)22 365 36 11
  Monday through Friday, 9:00 am to 7:00 pm
- **e-mail address**: SDSNT@beckman.com

1.4 Emergency telephone number
- **Telephone number (24H)**: Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Section 2 Hazards Identification

2.1 Classification of substance or mixture
- **Product Description**: Mixture
  Light brown; Clear; Liquid; Odorless
- **Classification according to EC 1272/2008 (CLP/GHS)**
  Skin Sensitization Category 1
- **Classification according to EC Directives 1999/45/EC and 67/548/EEC**
  Xi;R43
- **Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**
  Not classified as hazardous per US-OSHA HCS 2012 and UN GHS
Section 2 Hazards Identification (Continued)

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients

reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

Pictogram

![Warning Symbol]

Signal Word

WARNING

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary Statements

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take of contaminated clothing and wash it before use.

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>% by wt.</th>
<th>EU-67/548/EEC</th>
<th>EU 1272/2008 CLP/GHS</th>
<th>GHS</th>
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</thead>
<tbody>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one <a href="">EC# 220-239-6</a></td>
<td>&lt; 0.05</td>
<td>TR23/24/25-34-43 N,R50/53</td>
<td>Acute Tox. Dermal 3 Acute Tox. Inhal. 3 Acute Tox. Oral 3 Aquatic Acute 1 Aquatic Longterm 1 Skin Corr. 1B Skin Sens. 1 H301; H311; H314; H317; H331; H400; H410</td>
<td>Acute Tox. Dermal 3 Acute Tox. Inhal. 3 Acute Tox. Oral 3 Aquatic Acute 1 Aquatic Longterm 1 Skin Corr. 1B Skin Sens. 1 H301; H311; H314; H317; H331; H400; H410</td>
</tr>
</tbody>
</table>

CAS # 55965-84-9
EINECS # Not available
Index # Not available
Section 3 Composition and Information on Ingredients (Continued)

9 - Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6] (3:1) is the active ingredient of ProClin 300.

See section 8 for available Occupational exposure limits
See Section 15 for additional regulatory information
See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures
Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
Eye Contact If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.
Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
May produce an allergic reaction in some people. See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed
No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

5.1 Extinguishing Media
In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture
Special Fire and Explosion Hazards
No special hazards determined.

5.3 Advice for fire fighters
Protective Equipment
Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information
No further relevant information available.
Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and tightly sealed eye/face protection.

6.2 Environmental Precautions
Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures
Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

6.4 Reference to other sections
Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling
Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities
Store at 2 to 8°C, as directed on the product label. To maintain product quality, store according to the instructions in the product labeling. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses
No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits
US OSHA None established
ACGIH None established
DFG MAK None established
Ireland None established
IOELVs None established
NIOSH None established
Japan None established

8.2 Exposure controls

Engineering Controls
No special engineering controls are required. Use with good general ventilation.

Eye Protection
Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.
Section 8 Exposure Controls and Personal Protection (Continued)

**Skin Protection**
Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

**Respiratory Protection**
Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Gravity (Water=1.0)</td>
<td>≈1.0 @20°C</td>
</tr>
<tr>
<td>Color</td>
<td>Light brown</td>
</tr>
<tr>
<td>Transparency</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>6.0</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2 Other Information
No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical Stability
The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions
No further relevant information available.
Section 10 Stability and Reactivity (Continued)

10.4 Conditions to Avoid
To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous Decomposition Products
No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects
Toxicity Data for Hazardous Ingredients
Not applicable

Primary Routes of Exposure
Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory/skin sensitization
May cause sensitization by skin contact.

Carcinogenicity
No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity
No data available.

Reproductive Toxicity
No data available.

Specific target organ toxicity – single exposure
No data available.

Specific target organ toxicity – repeated exposure
No data available.

Aspiration hazard
No data available.

Other Information
No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity
Fresh Water Species
No information available.

Microtox
No information available.

Water Flea
No information available.

Fresh Water Algae
No information available.
Section 12 Ecological Information (Continued)

12.2 Persistence and degradability Not determined for the product.
12.3 Bioaccumulation Not determined for the product.
12.4 Mobility in soil Not determined for the product.
12.5 Results of PBT and vPvB assessment Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
12.6 Other Adverse Effects This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

Section 13 Disposal Considerations

13.1 Waste treatment methods
Product Waste Disposal Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.
Package disposal Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information
Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
US Federal and State Regulations
SARA 313 No ingredients listed.
CERCLA RG’s, 40 CFR 302.4 No ingredients listed.
California Proposition 65 No ingredients listed.
Massachusetts MSL No ingredients listed.
New Jersey Dept. of Health RTK List No ingredients listed.
Pennsylvania RTK No ingredients listed.
Section 15 Regulatory Information (Continued)

EU Regulations
This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany)  WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.
No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Irritant

Risk and Safety Phrases
R43  May cause sensitization by skin contact.
S24  Avoid contact with skin.
S36/37/39  Wear suitable protective clothing, gloves and eye/face protection.
S28  After contact with skin, wash immediately with plenty of water.

Canada
This product is exempt from WHMIS label and SDS requirements.

PIN  Not applicable

Ingredients on Ingredient Disclosure List
None

Ingredients with unknown toxicological properties
Product is exempt

15.2 Chemical Safety Assessment  A Chemical Safety Assessment has not been carried out.
Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Beckman Coulter Safety Rating

<table>
<thead>
<tr>
<th>Flammability: 0</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 2</td>
<td>0=None</td>
</tr>
<tr>
<td>Reactivity with Water: 0</td>
<td>1=Slight</td>
</tr>
<tr>
<td>Contact: 2</td>
<td>2=Caution</td>
</tr>
<tr>
<td></td>
<td>3=Severe</td>
</tr>
</tbody>
</table>

Revision Changes
Update of EC Rep Address

Hazard Class, hazard statements and risk phrase description from section 3

N - Dangerous for the environment
T - Toxic
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3
Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3
Section 16 Other Information (Continued)

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
Skin Corr. 1B - Skin Corrosion Category 1B
Skin Sens. 1 - Skin Sensitization Category 1
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany’s maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions’ Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances

For further information, please contact your local Beckman Coulter, Inc. representative.

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